USB 3.0 to DisplayPort Adapter

User's Manual

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Before attempting to connect, operate or adjust this product, please save and read the User's Manual completely. The style of the product shown in this User's Manual may be different from the actual unit due to various models.

Safety instructions

Always read the safety instructions carefully:

- Keep this User’s Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
  - The equipment has been exposed to moisture.
  - The equipment has been dropped and damaged.
  - The equipment has obvious sign of breakage.
  - The equipment has not been working well or cannot get it to work according to the User’s Manual.

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Introduction

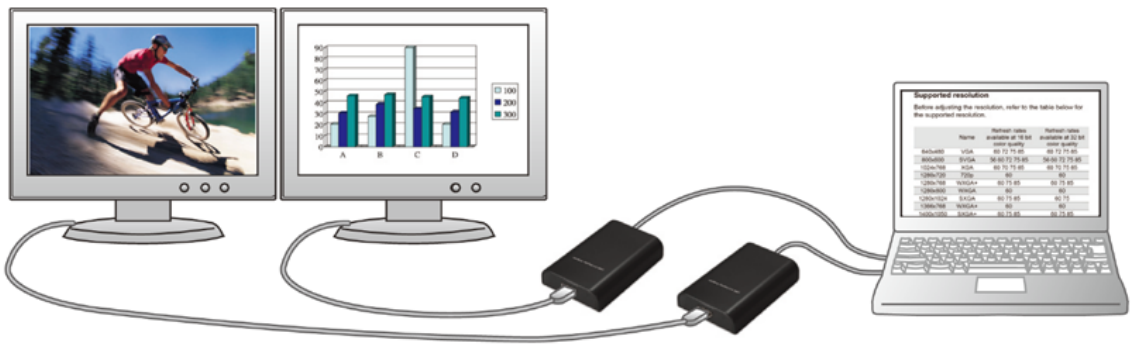
The USB 3.0 to DisplayPort Adapter is a device which enables connection to second display device to a computer using USB 3.0 port. With this convenient design, it can connect up to 6 display devices to a computer without installing extra video cards. Once the driver has been installed, the USB-attached monitor will be enabled immediately. No function key on the adapter and there is no need to reboot the operating system after unplugging the USB adapter.

System performance is an important issue when using multiple monitors. Another benefit of this adapter is that it occupies little computer resource; ensuring users get quality display without comprising computer performance.

Mirror Mode

Extended Mode

Using Dual Adapters (Extended Mode)



Features

- Add-on monitor, LCD or projector through a single USB 3.0 port hot-plug
- Compliant with USB 3.0 Super Speed upstream connection
- Supports High Resolution up to 2560x1600 pixels
- Video streaming is supported up to 1080p
- Extend and Mirror mode support
- Resumes from hibernation and suspend modes
- Supports up to 6 USB display adapters to work simultaneously

Application

Office workstation

- View your large spreadsheets across two screens with display continuity
- Multitask more effectively without overlapping windows
- Edit on one screen while surfing the Internet information on the other

On the road

- Do multiple screen presentations without bringing another computer
- Easily provide multiple screen exhibitions in a trade show

Graphics workstation

- Use second display for palettes/tools
- Get a panoramic view of large documents

Editing workstation

- Type documents on one screen while viewing reference material on the other
- Compare two documents simultaneously across two screens

Financial analysis

- Have one monitor per data stream
- View charts and live data at the same time

Entertainment

- View videos/TV on one screen and reviews on the other
- Get additional perspectives when playing games

Package contents

- USB 3.0 to DisplayPort Adapter x1
- CD (Driver & User's Manual) x1
- Quick Installation Guide x1
- USB Cable x1

System requirements

- Support Windows® XP, Windows® Vista, Windows® 7, and Windows® 8

Hardware requirements

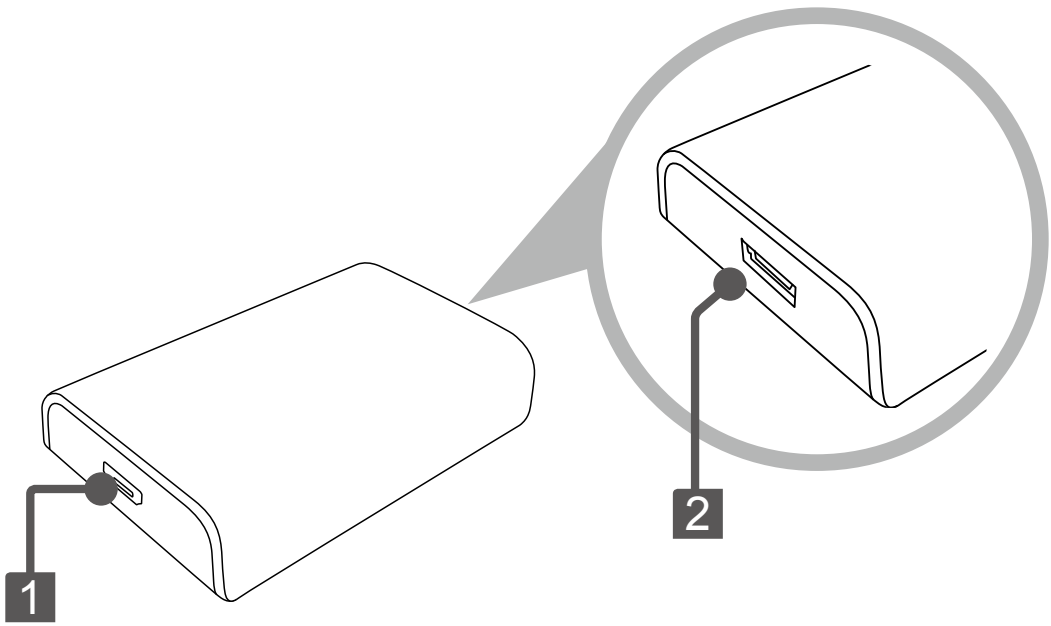
- The minimum requirements for the PC are:
  - With Single Core CPU at 1.2GHz or higher processor clock. Intel® Pentium®/Celeron® family, or AMD® K6®/ Athlon®/Duron® family, or compatible processor
  - 512MB memory
  - At least one USB3.0 port (*)
  - 30Mb of available disk space
  - 800 x 600 or higher resolution monitor

  ***Note:** Although this adapter supports to connect to a USB 2.0 connector, the quality might be poor under high resolution display condition. In addition, this adapter does not support USB 1.0/1.1.

- To play DVD on the adapter-attached monitor, except the requirements above, the following requirements should also be met:
  - With dual core CPU at 2.0 GHz processor clock
  - The adapter screen resolution be set to 800x600 with 32bit color. It is recommended to close all other unnecessary applications if the video playback is not smooth.
- For 1-2 monitors, business usage, productivity target. This may not provide full frame rate DVD playback at full screen.
  - 1.2GHz Single Core CPU
  - 512MB memory
- For 3 monitors, where 1 could run DVD video while also targeting productivity and business apps. Will support only 1 video of DVD resolution at full screen
  - 1.6GHz CPU
  - 1GB memory
- For 6 screen where 1 screen can run full screen DVD video
  - 1.8GHz Core Duo
  - 1GB memory

Parts and connection

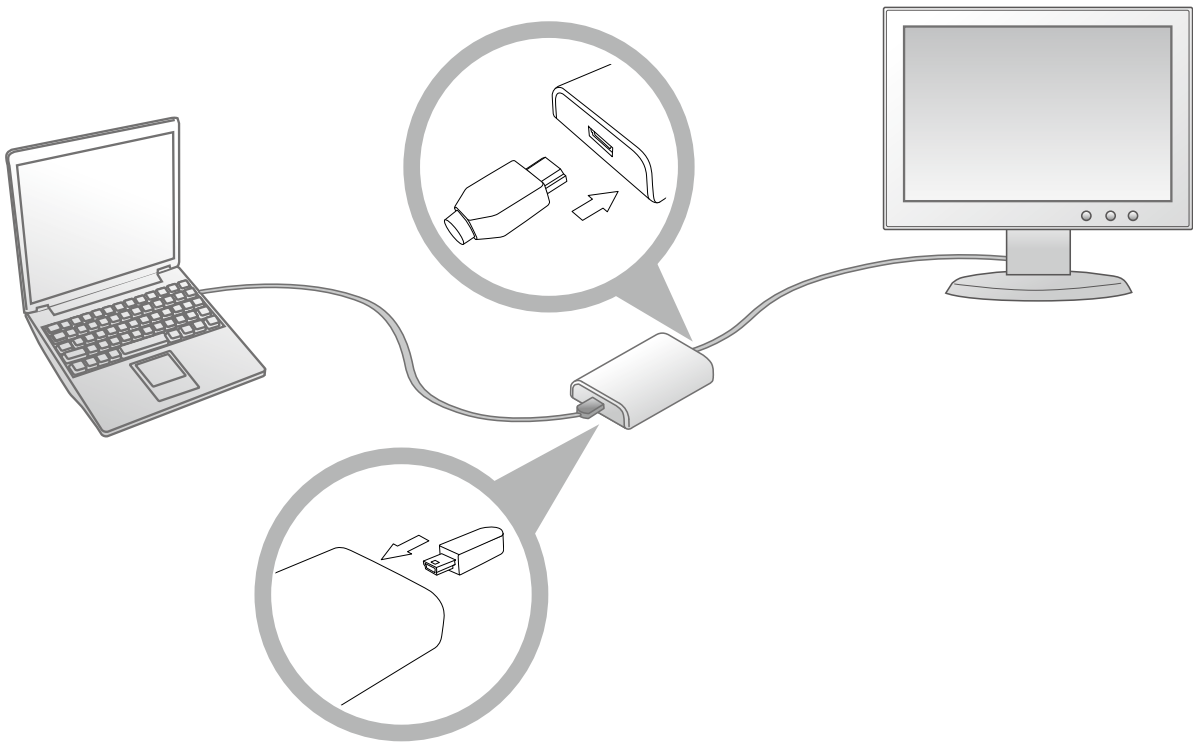
Parts



1 **DisplayPort connector** (DP Connector) **:** Connect to a desired DP monitor. To connect different types of monitor, you may need a converter.

2 **Micro USB connector:** Connect to an available USB connector on a computer.

Connection



1. Plug one end of DP cable into the adapter's DP connector, and the other end of DP cable into a DP connector of monitor.

2. Plug the micro USB connector into the adapter's micro USB connector and the other end into a PC.

Installation

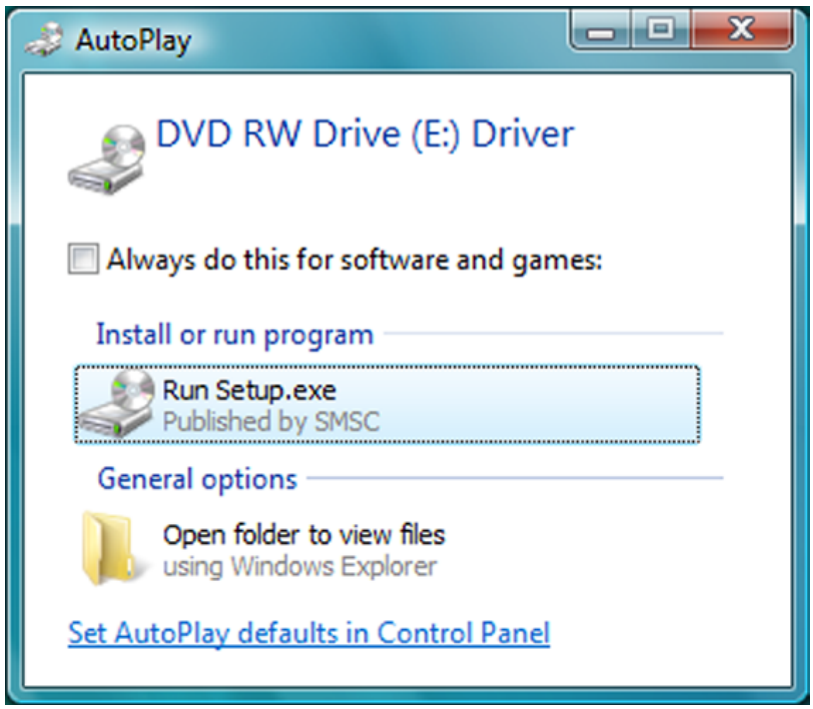
Caution: DO NOT connect the USB 3.0 to DisplayPort Adapter to a computer before installing the provided driver.

Note that the following strings and screen shots shown on this user's manual may vary slightly from each operation.

For Windows® 7/ Windows® 8 users

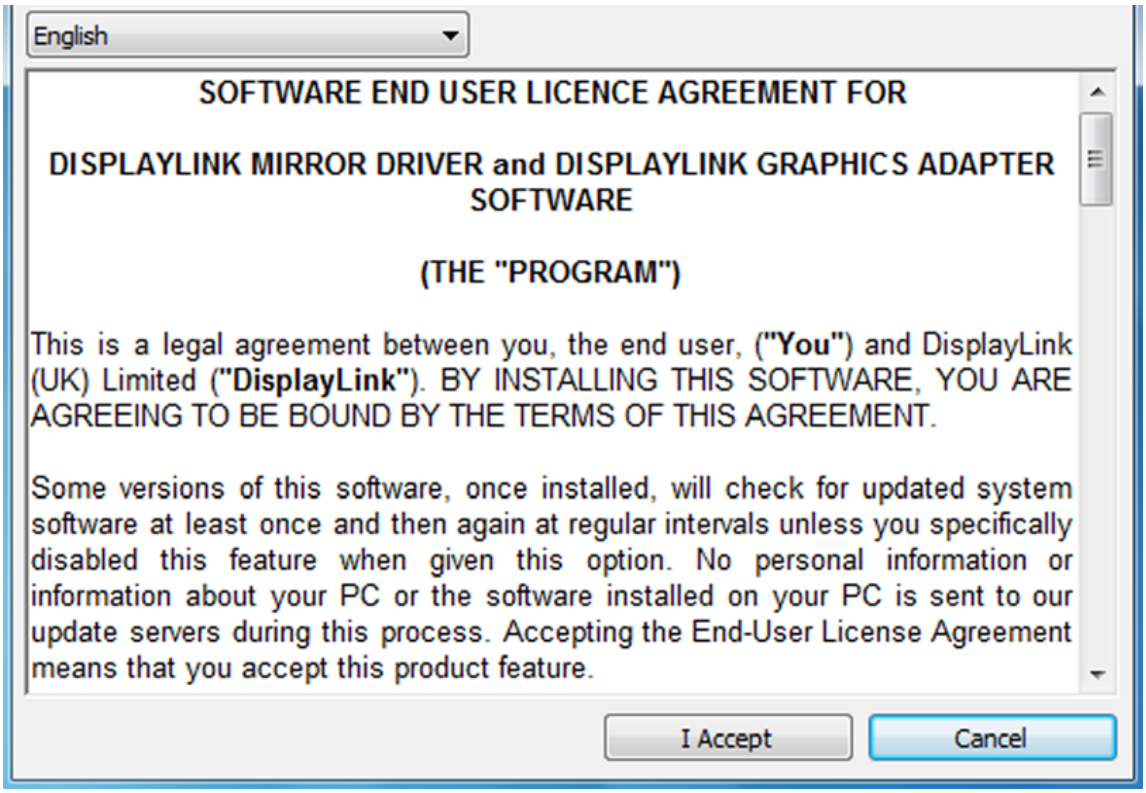
1. Insert the supplied driver CD into a computer's CD/DVD-ROM.

2. Click <**Run Setup.exe**> to start the installation.

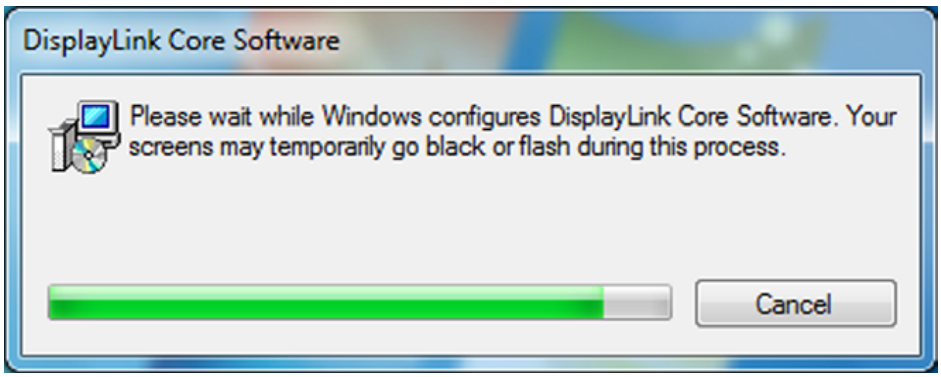


Note:
If the **AutoPlay** does not appear automatically, locate and double-click on the **Setup.exe** file in the driver folder to launch the setup.
Enter the administrator password and then click <**Yes**> to start the installation if a **User Account Control** dialog box appears.

3. Click <**I Accept**> for the next step.


English
SOFTWARE END USER LICENCE AGREEMENT FOR
DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADAPTER SOFTWARE
(THE "PROGRAM")
This is a legal agreement between you, the end user, ("You") and DisplayLink (UK) Limited ("DisplayLink"). BY INSTALLING THIS SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT.
Some versions of this software, once installed, will check for updated system software at least once and then again at regular intervals unless you specifically disabled this feature when given this option. No personal information or information about your PC or the software installed on your PC is sent to our update servers during this process. Accepting the End-User License Agreement means that you accept this product feature.
I Accept
Cancel

4. Be patient with the installation procedure, it may take a while.


DisplayLink Core Software
Please wait while Windows configures DisplayLink Core Software. Your screens may temporarily go black or flash during this process.
Cancel

5. Connect the USB 3.0 to DisplayPort Adapter to a computer after the driver installation is completed. For connection details, refer to the chapter of **Parts and Connection**.

6. When the operating system detects the adapter, the reminder message will appear on the system tray.

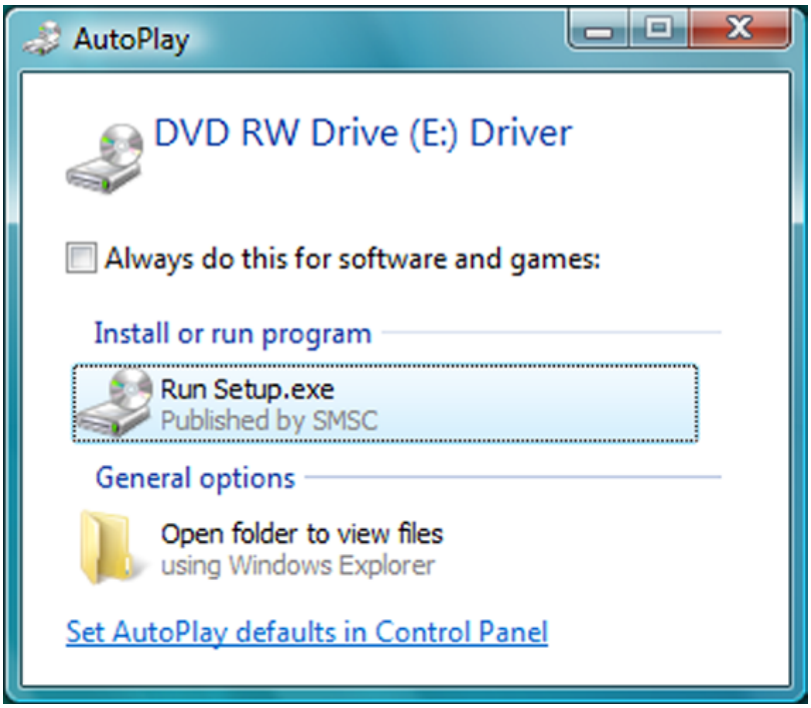
Note: Click <**Yes**> to restart or <**No**> to manually restart later, if a prompting to restart computer message appears.

7. To change the status of display mode, position the mouse anywhere on the **Windows desktop**, and then right-click to select <**Screen Resolution**>.

For Windows® Vista users

1. Insert the supplied driver CD into a computer's CD/DVD-ROM.

2. Click <**Run Setup.exe**> to start the installation.



Note:

- If the **AutoPlay** does not appear automatically, locate and double-click on the **Setup.exe** file in the driver folder to launch the setup.
- Enter the administrator password and then click <**Allow**> to start the installation if a **User Account Control** dialog box appears.

3. Click <**I Accept**> for the next step.

English
SOFTWARE END USER LICENCE AGREEMENT FOR
DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADAPTER SOFTWARE
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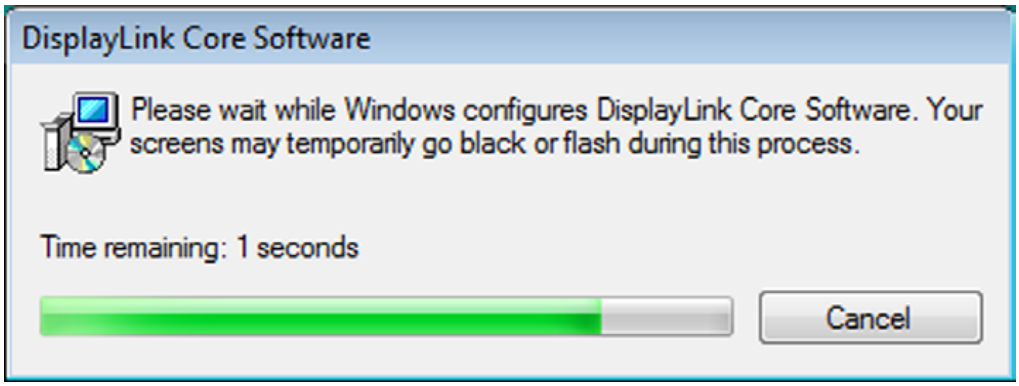
Automatically check for updates
I Accept
Cancel

4. Be patient with the installation procedure, it may take a while.


DisplayLink Core Software
Please wait while Windows configures DisplayLink Core Software. Your screens may temporarily go black or flash during this process.
Time remaining: 1 seconds
Cancel

5. Connect the USB 3.0 to DisplayPort Adapter to a computer after the driver installation is completed. For connection details, refer to the chapter of **Parts and Connection**.

6. When the operating system detects the adapter, the reminder message will appear in the **Windows System Tray**.

Note: Click <**Yes**> to restart or <**No**> to manually restart later, if a prompting to restart computer message appears.

7. To change the status of display mode, position the mouse anywhere on the **Windows desktop**, and then right-click to select <**Personalize**>.

8. Click <**Display Settings**> to enter the configuration page.

For Windows® XP users

1. Insert the supplied driver CD into a computer's CD/DVD-ROM.

2. Click <**I Accept** > for the next step.

English
SOFTWARE END USER LICENCE AGREEMENT FOR
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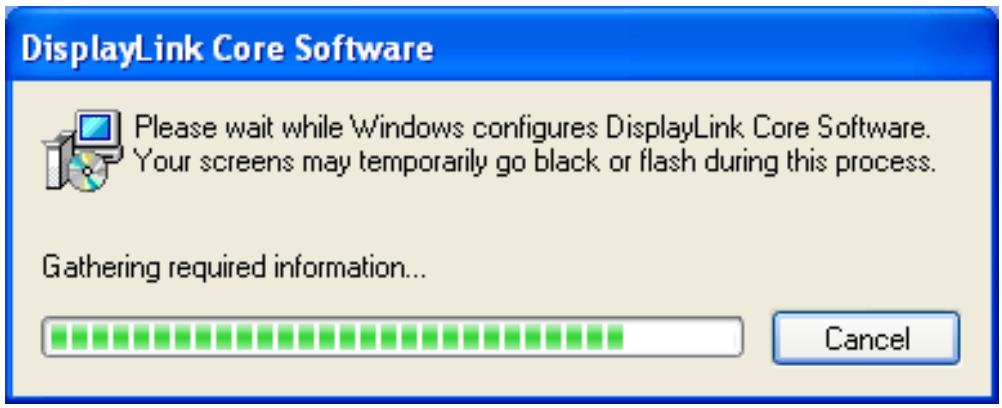
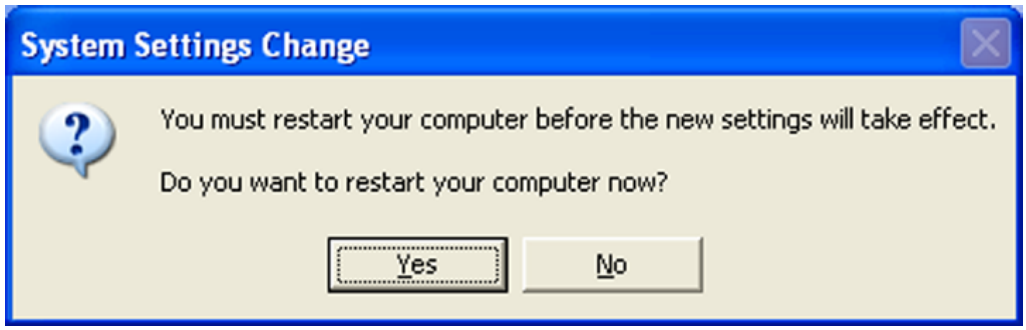
Some versions of this software, once installed, will check for updated system software at least once and then again at regular intervals unless you specifically disabled this feature when given this option. No personal information or information about your PC or the software installed on your PC is sent to our update servers during this process. Accepting the End-User License Agreement means that you accept this product feature.
Automatically check for updates
I Accept
Cancel

3. Be patient with the installation procedure, it may take a while.


DisplayLink Core Software
Please wait while Windows configures DisplayLink Core Software.
Your screens may temporarily go black or flash during this process.
Gathering required information...
Cancel

Note: Click <**Yes**> to restart or <**No**> to manually restart later, if a prompting to restart computer message appears.


System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

4. Connect the USB 3.0 to DisplayPort Adapter to a computer after the driver installation is completed. For connection details, refer to the chapter of **Parts and Connection**.

5. When the operating system detects the adapter, the reminder message will appear on the system tray.

6. To change the status of display mode, position the mouse anywhere on the **Windows desktop**, and then right-click to select <**Properties**>.

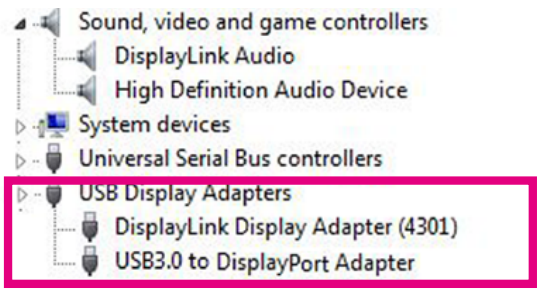
7. Click <**Settings**> tab to enter the configuration page.

Verifying the driver

To verify the driver of the adapter, follow the step below to open the **Device Manager** on Windows operating system.

1. Following the path as below to open the device manager
   Windows® 8: **My Computer\Computer**(right click)\ **Properties\Device Manager**
   Windows® 7: **Control Panel\System and Security\ System\Device Manager**
   Windows® Vista: **Control Panel\System Maintenance\ Device Manager**
   Windows® XP: **Control Panel\System\Hardware\Device Manager**

2. A string similar to **USB..Adapters** device should be listed.



The screen shot above is demonstrated by Windows® 7 and might be varied slightly for each operating system.

Note: If there is a (question) or (exclamation) mark next to that item, then the driver is not properly installed. Please delete the item, unplug the adapter and repeat the installation steps.

Using the adapter

There are several ways to utilize the monitor attached on the adapter. The add-on monitor can be configured to use either “mirror mode”, “extended mode” or be the primary display as described in this section.

Mirror mode: Duplicate the primary display and mirror to the add-on monitor(s).

Extended mode: The Windows Desktop will be spread to the add-on monitor(s).

Primary mode: Assign the add-on monitor to the primary display.

Note that the following screen shots in this section are using Windows® 7 operating system. It may not match your operating system but the definitions of buttons, tabs and menus are the same.

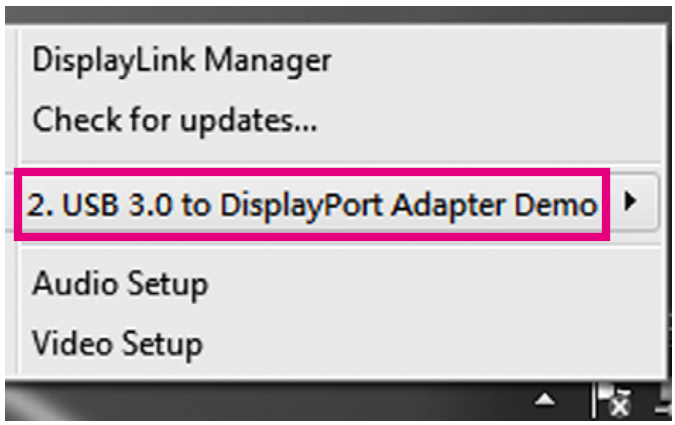
Utility settings

The supplied utility allows you to configure the display mode, screen rotation, screen resolution, and physical arrangement of your monitors.

1. Click < (utility icon) > in the **Windows System Tray**.

Note: The may be hided in the **Windows System Tray**. Click < (arrow icon) > to bring up more icons if it happens.

2. Select a preferred option, and then click it using mouse.



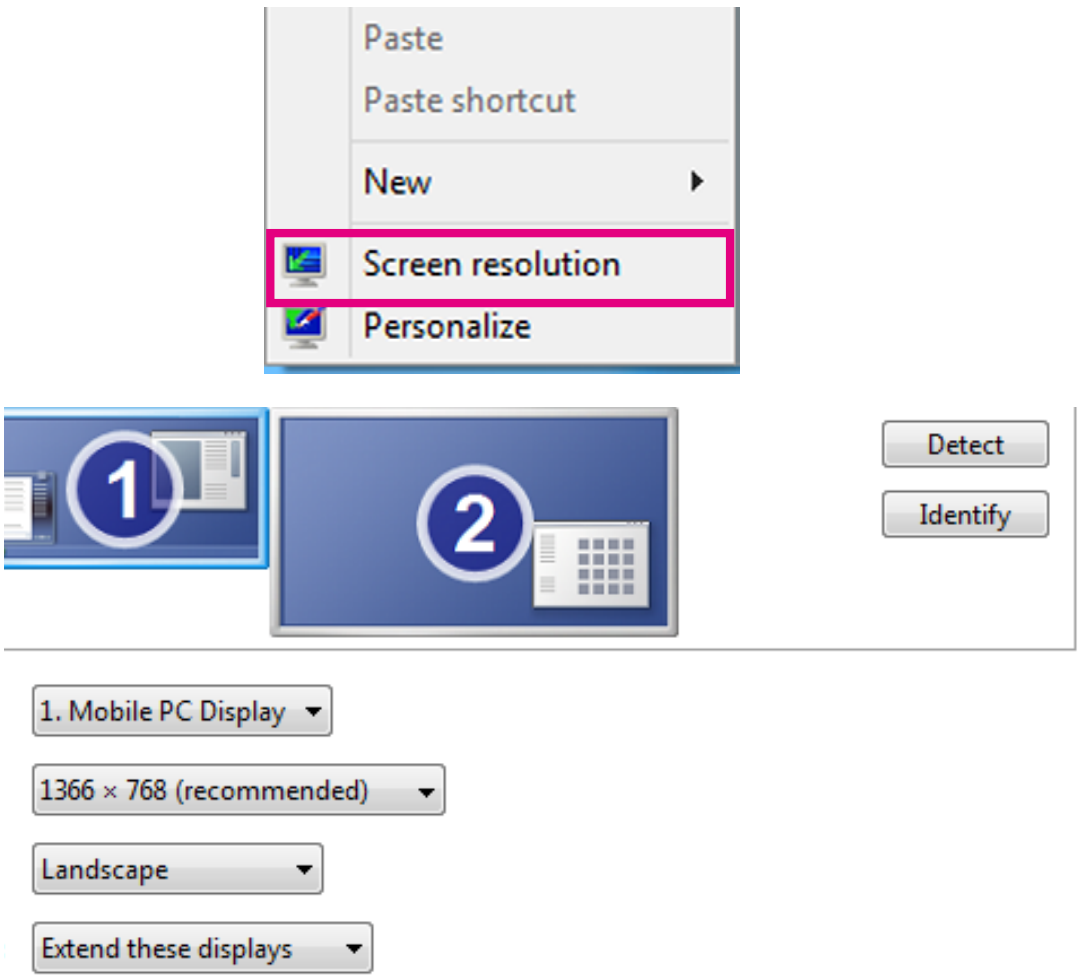
Description of the settings

Options		Description
DisplayLink Manager		Enable the Windows screen resolution page.
Check for Updates		Check the latest driver and download if available.
USB 3.0 to DisplayPort Adapter		
	Screen Resolution	Click to select an available resolution. Note that this function is invalid in mirror mode, as the resolution is defined as the resolution of the primary monitor.
	Screen Rotation	Rotate the screen according to the desired orientation.
	Extend To	Extend the screen according to the desired orientation.
	Set as Main Monitor	Set this screen to the main screen
	Notebook Monitor Off	Switch the add-on monitor to the main display and turn off the screen of the laptop. **Note:** This function works only when one add-on monitor is connected. This option will also only appear on laptop.
	Mirror	Duplicate the primary monitor to the monitor which connects with the adapter.
	Off	Turn off the monitor.
	Optimize for Video	Optimize the video quality when playing back. Text may appear less clear when enabling.

Options	Description
USB 3.0 to DisplayPort Adapter	
Fit to TV	Adjust the size of Windows Desktop on the TV. **Note:** This function works only when one add-on monitor is connected. Besides, this option will also only work in extended mode. The add-on monitor will change to the extended mode if selecting this option while in mirror mode.
Audio Setup	Enable the Windows audio configuration page. This function works only in specific models.
Video Setup	Enable the Windows screen resolution page.

Windows system configuration

Position the mouse anywhere on your computer desktop, right-click and select <**Screen Resolution**> on Windows® 7/ Windows® 8, **Personalize** > **Display Settings** on Windows® Vista or **Properties** > **Settings** on Windows® XP.

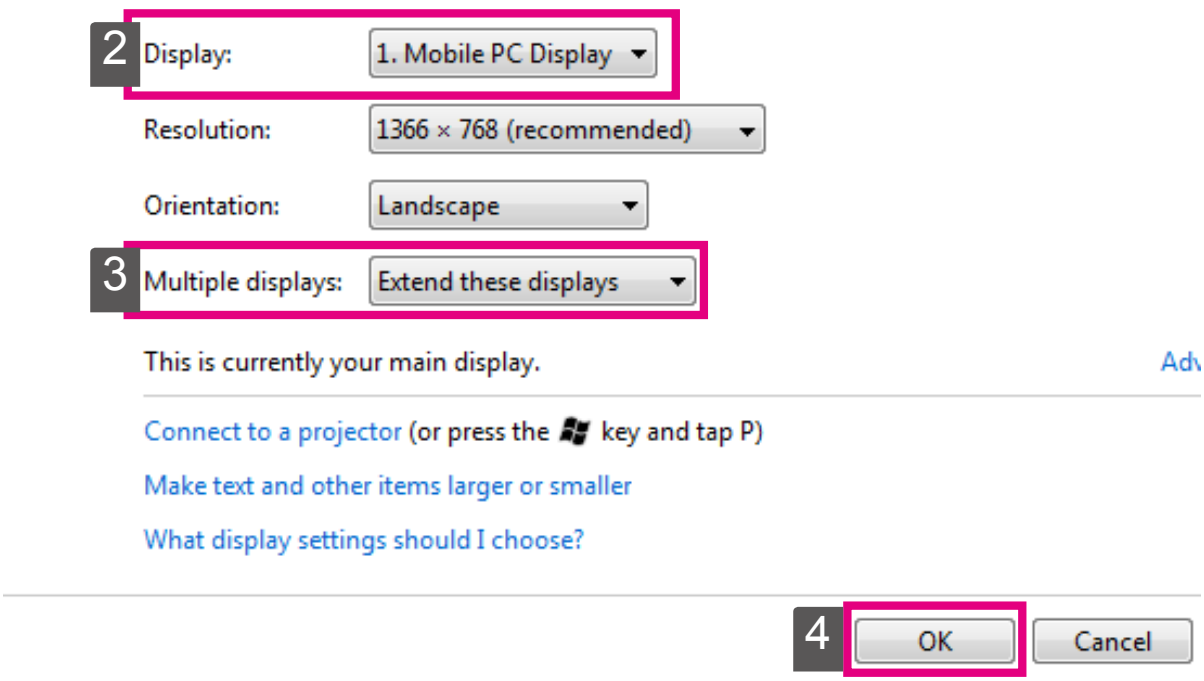


Alternatively, click < (utility icon) > in the **Windows System Tray**, and then select **DisplayLink Manager** or **Video Setup**.

Extended mode

1. Refer to the **Windows system configuration** section to open the configuration page.

2. In the **Display** drop-down menu, select the option with the string similar to “**DisplayLink Graphics Adapter**”.



3. Check the **Multiple Displays** > **Extend these displays** on Window® 7/ Window® 8, **Extend the desktop onto this monitor** box on Windows® Vista or **Extend my Windows desktop onto this monitor** box on Windows® XP.

4. Click <**OK**> to confirm and close the settings screen.

5. Once the setting is completed, simply drag and drop the application icons or the opened windows to the add-on monitor. However, some applications may not support to display on the extended desktop.

Cursor disappeared

If the status remains in the extended mode but the adapter is disconnected, the desktop will still be panned to the add-on monitor. The cursor may not be found on the primary monitor in such a case. If it happens, connect the add-on monitor through the adapter again or keep moving the mouse.

Video playback in extended mode

If the video or DVD playback quality is poor or low performance in the extended mode, please playback it on the primary monitor instead of the add-on monitor.

Mirror mode

1. Refer to the **Windows system configuration** section to open the configuration page.

2. In the **Display** drop-down menu, select the option with the string similar to “**DisplayLink Graphics Adapter**”.

3. Check the **Multiple Displays** > **Duplicate these displays** on Window® 7/ Window® 8, uncheck the **Extend the desktop onto this monitor** box on Windows® Vista or **Extend my Windows desktop onto this monitor** box on Windows® XP.

4. Click <**OK**> to confirm and close the settings screen.

Be the primary monitor

1. Refer to the **Windows system configuration** section to open the configuration page.

2. In the **Display** drop-down menu, select the option with the string similar to “**DisplayLink Graphics Adapter**”.

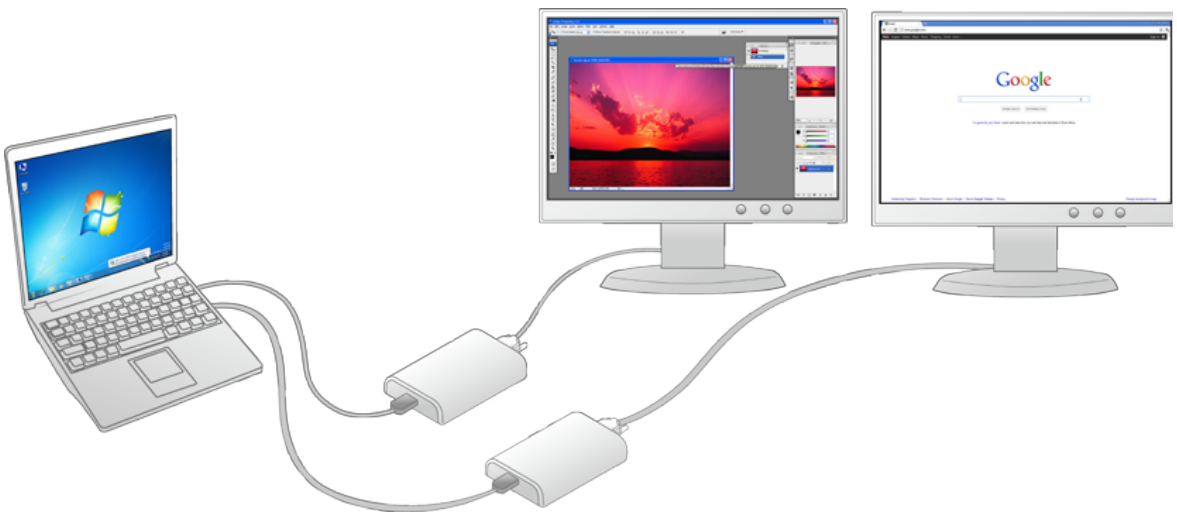
3. Check the **Make this my main display** box on Window® 7/ Window® 8 / Windows® Vista, or **Use this device as the primary monitor** box on Windows® XP.

Note: Some PCs and laptops may need to disable the main display (i.e. uncheck the **Extend the desktop onto this monitor** or **Extend my Windows desktop onto this monitor** box for the main display) as part of the same settings change.

4. Click <**OK**> to confirm and close the settings screen.

Using multiple adapters

Up to 6 adapters can be connected to one computer simultaneously. To connect multiple adapters, install the drive as described in the **Installation** section and then connect the adapters to a computer.

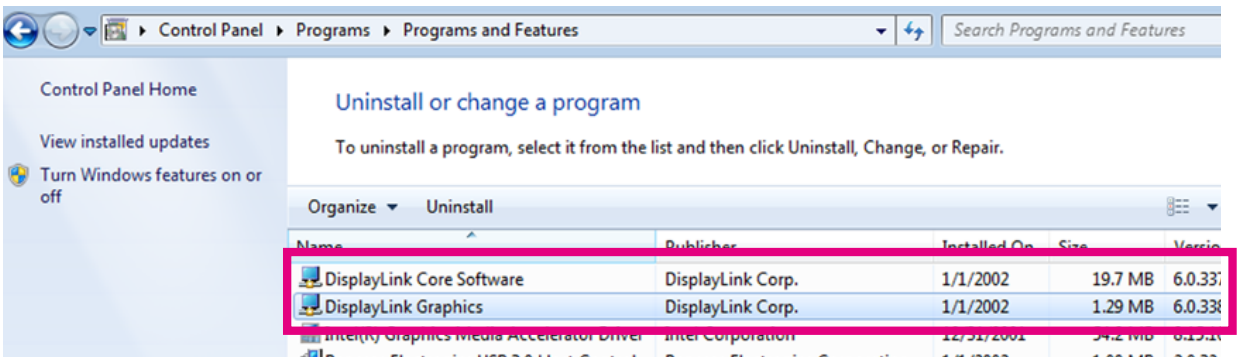


Note: Only the first connected adapter can be configured to extended mode and the others will be forced to mirror mode if using a low-end or poor conditional computer.

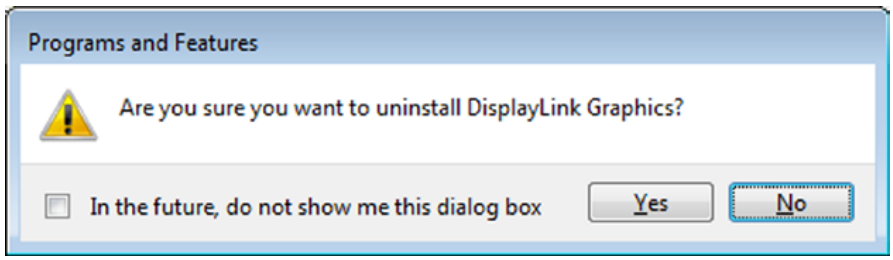
Uninstall the adapter and driver

1. Open the **Control Panel** > **Programs** > **Programs and Features** on Windows® 7/ Windows® 8/ Windows® Vista, and **Add or Remove Programs** on Windows® XP.

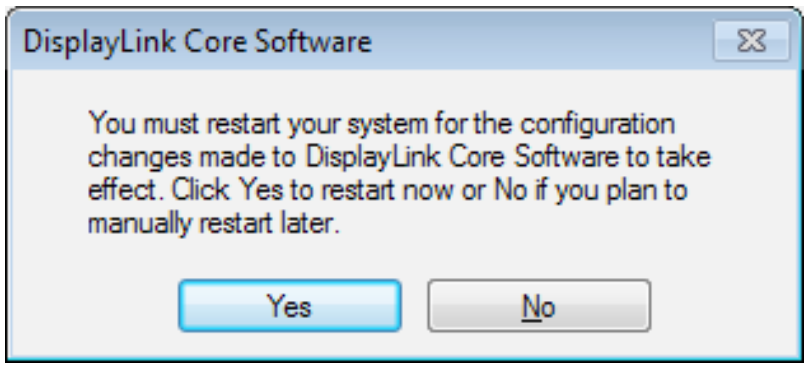
2. Select <**DisplayLink Graphic**> and click <**Uninstall or Remove**>.



3. Click <**Yes**> to remove the driver.


Programs and Features
Are you sure you want to uninstall DisplayLink Graphics?
In the future, do not show me this dialog box
Yes
No

4. Click <**Yes**> to restart your computer and then unplug the adapter now.


DisplayLink Core Software
You must restart your system for the configuration changes made to DisplayLink Core Software to take effect. Click Yes to restart now or No if you plan to manually restart later.
Yes
No

Specifications

Host Interface	USB 3.0
Video Interface	DisplayPort
Connectors	Video output: DisplayPort connector
	Host upstream link: USB 3.0 Micro B type connector
Connectivity	Up to 6 adapters on a computer
Power Mode	Bus-power
OS Support	- Windows® XP - Windows® Vista - Windows® 7 - Windows® 8
Supported Modes	Extended Desktop, Mirrored Desktop, Primary Display
Housing	Material: ABS (Plastic)
	Color: Black
	Size: 84.5 (L) x 55.5 (W) x18 (H) mm
Working Environment	Operation temperature: 10°C~-40°C
	Storage temperature: -20°C~70°C
	Relative Humidity: < 85% non-condensing
Certificate	CE, FCC

Resolutions and Refresh rate

Resolution	Name	Refresh Rate
640x480	VGA	60 72 75 85
800x600	SVGA	56 60 72 75 85
1024x768	XGA	60 70 75 85
1280x720	720p	50 60
1280x768	WXGA+	60 75 85
1280x800	WXGA	60
1280x1024	SXGA	60 75
1366x768	WXGA+	50 60
1400x1050	SXGA+	60 75 85
1600x900		60
1600x1200	UXGA	60
1680x1050	WSXGA+	60
1920x1080	1080p	50 60
1920x1200	WUXGA	60
2048x1152		60
2048x1536		60
2560x1440		60
2560x1600	WQXGA	60

640x480, 720x400*, 720x480, 768x576, 800x600, 832x642, 800x480, 848x480, 1024x600, 1024x768, 1152x864, 1152x870, 1280x720, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1366x768, 1368x768, 1400x1050, 1440x900, 1600x900, 1600x1200, 1680x1050, 1920x1080, 1920x1200, 2048x1080, 2048x1152, 2048x1280, 2048x1536, 2560x1440, 2560x1600

Note that interlaced modes and reduced blanking modes are not supported.

USB Cable

Separated from the body

Type: USB 3.0 Type A (Male) to Micro USB 3.0 (Female)

Specifications are subject to change without notice.

Regulatory compliance

FCC conditions

This equipment has been tested and found to comply with Part 15 Class B of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received and include interference that may cause undesired operation.

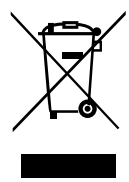
CE

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B

WEEE information

For EU (European Union) member users: According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

USB 3.0 to DisplayPort Adapter
User's Manual



SVR-H V1.0